

The principle employed in the operation of the Fan is that of re-cycling and re-using wasted energy within the device, in such a manner as to allow continuous operation without interruption. For example in an ordinary Fan driven by a motor, the turning motion at the opposite end of the shaft, from the fan-blades is usually wasted. By utilizing the wasted turning motion to operate the charging component, all wasted energy can be retrieved. Referring to FIG. 1A, therein illustrated is a typical embodiment of a cordless re-chargeable fan 15. You will notice that the drive motor driver gear to the charging component 26A is much larger than the driven gear 24A, this is to compensate for the possibility of the driver motor slowing down. If this happens the charging component will still be operating at or above normal working speed, so that the charging component will always deliver sufficient charging volts when the voltage regulator calls. This action solves the problem the examiner referred to in his conclusion. Please note that as the battery is re-charged the drive motor will increase speed, and will not gradually slow to a stop as the examiner states. The mechanical advantage of the driver to